Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-07-33** **Date: 04-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No.07, Byatarayanapura.
Agency	:	Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	_
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Actually N.D
AE (WQ)

Assistant Executive Engineer
Kodigehalli Sub Division.
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-07-33** **Date: 30-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No.07, Byatarayanapura.
Agency	:	Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-07-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
****End of Report****

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-07-33** **Date: 04-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No.07, Byatarayanapura.
Agency	:	Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-07-33** **Date: 04-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

Asst Exe. Engr
AE(Ret)

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-07-33** **Date: 03-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No.07, Byatarayanapura.
Agency	:	Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.
Customer Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-07-33** **Date: 03-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.24	_
7	Aggregate crushing Value(%)	22.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Assistant Executive Engineer.
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Bangalore.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-08-07-33** **Date: 03-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No.07, Byatarayanapura.
Agency	:	Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-08-07-33** **Date: 03-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Kodigehalli Sub Division,
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TEST RESULTS OF STEEL

Lab ID : **CP-2019-08-07-33** **Date: 06-07-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 05-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-08-07-33** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No.07, Byatarayanapura.
Agency	:	Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	12-07-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	152	203	12404	29.750	2398.4	2428.1	Not less than 1800Kg/m^3
2	401	150	201	12090	29.630	2450.8		
3	402	151	202	12262	29.860	2435.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	26.130	25.820	1.20	3.91	Shall not be more than 10% by mass
2	26.120	24.800	5.32		
3	25.820	24.540	5.22		

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Lab ID : **CP-2019-08-07-33** **Date: 15-07-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	152	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	151	203	
3	403	153	201	
4	402	151	203	
5	401	153	201	
6	402	152	199	
7	403	151	202	
8	401	153	201	
9	403	151	203	
10	401	153	201	
11	402	152	203	
12	403	153	201	
13	401	151	200	
14	402	153	201	
15	401	150	203	
16	403	152	201	
17	401	151	203	
18	402	153	201	
19	403	150	203	
20	404	153	201	
Average of 20	**402**	**152**	**202**	

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Lab ID : **CP-2019-08-07-33** **Date: 15-07-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	152	61104	274.6	4.5	4.7
2	401	151	60551	282.8	4.7	
3	403	153	61659	290.1	4.7	
4	402	151	60702	280.9	4.6	
5	401	153	61353	285.2	4.6	
6	402	152	61104	301.9	4.9	
7	403	151	60853	283.6	4.7	
8	401	153	61353	301.5	4.9	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-07-33** **Date: 15/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/07/2019	15/07/2019	150.99 X 151.49 X 149.71	22873	**8.695**	283.9	12.4	12.7
2	PCC	M15	08/07/2019	15/07/2019	150.15 X 150.94 X 151.57	22665	**8.681**	289.9	12.8	
3	PCC	M15	08/07/2019	15/07/2019	151.47 X 150.70 X 149.15	22826	**8.171**	295.9	13.0	

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R KARTHIK RECHAN
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Quality Manager

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AE(Civil)

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2019-08-07-33** **Date: 05/08/2019**
stomer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
ddress	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency Grants in Ward No.07, Byatarayanapura.
Agency	:	Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	08/07/2019	05/08/2019	151.44 X 151.86 X 151.34	22997	**8.146**	409.9	17.8	17.8
2	PCC	M15	08/07/2019	05/08/2019	149.75 X 149.83 X 151.20	22438	**8.559**	397.1	17.7	
3	PCC	M15	08/07/2019	05/08/2019	151.18 X 151.15 X 149.20	22851	**8.936**	410.1	17.9	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P
Bangalore

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-07-33** **Date: 16/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	16/07/2019	151.27 X 150.66 X 151.49	22791	**8.314**	426.9	18.7	18.6
2	RCC	M20	09/07/2019	16/07/2019	151.03 X 151.00 X 150.92	22806	**8.680**	426.1	18.7	
3	RCC	M20	09/07/2019	16/07/2019	150.08 X 151.46 X 149.53	22730	**8.931**	418.7	18.4	

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Accepted .N.D
AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-07-33** **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	06/08/2019	150.74 X 150.38 X 150.11	22668	**8.885**	525.4	23.2	23.1
2	RCC	M20	09/07/2019	06/08/2019	149.46 X 151.78 X 149.98	22685	**8.920**	521.2	23.0	
3	RCC	M20	09/07/2019	06/08/2019	150.19 X 151.98 X 149.27	22826	**8.064**	525.9	23.0	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

CIVIL PRO BANGALORE Sig. Date.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-07-33** **Date: 16/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	16/07/2019	151.24 X 151.31 X 149.51	22885	**8.314**	420.0	18.4	18.4
2	RCC	M20	09/07/2019	16/07/2019	149.76 X 151.99 X 150.46	22762	**8.680**	411.3	18.1	
3	RCC	M20	09/07/2019	16/07/2019	150.57 X 151.12 X 149.60	22754	**8.931**	425.8	18.7	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(Retd)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-07-33** **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	06/08/2019	150.98 X 151.37 X 149.07	22855	**8.885**	539.0	23.6	23.3
2	RCC	M20	09/07/2019	06/08/2019	149.81 X 151.12 X 151.11	22638	**8.920**	512.2	22.6	
3	RCC	M20	09/07/2019	06/08/2019	149.61 X 149.94 X 149.68	22432	**8.064**	528.2	23.5	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig..... Date.....

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Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	16/07/2019	150.10 X 149.61 X 149.62	22457	**8.314**	418.5	18.6	18.3
2	RCC	M20	09/07/2019	16/07/2019	149.31 X 151.32 X 149.89	22593	**8.680**	410.3	18.2	
3	RCC	M20	09/07/2019	16/07/2019	151.62 X 151.07 X 151.93	22904	**8.931**	417.0	18.2	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Approved
AE(HQ)

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-07-33** **Date: 06/08/2019**

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Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	06/08/2019	150.43 X 149.59 X 150.08	22503	**8.885**	530.9	23.6	23.0
2	RCC	M20	09/07/2019	06/08/2019	150.98 X 149.03 X 151.18	22501	**8.920**	499.1	22.2	
3	RCC	M20	09/07/2019	06/08/2019	151.10 X 150.03 X 149.76	22669	**8.064**	528.2	23.3	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE (Ver)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	16/07/2019	150.30 X 150.48 X 151.06	22618	**8.314**	420.9	18.6	18.9
2	RCC	M20	09/07/2019	16/07/2019	151.84 X 151.36 X 151.43	22982	**8.680**	435.7	19.0	
3	RCC	M20	09/07/2019	16/07/2019	151.10 X 151.49 X 151.10	22890	**8.931**	434.5	19.0	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE (Civil)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-07-33** **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Grants in Ward No.07, Byatarayanapura.

Agency : Sri.Muniraju BM (SS Constructions), No: 432/A, 1st Main, Shivashankar Block, Hebbala, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/32/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	09/07/2019	06/08/2019	151.43 X 151.63 X 151.93	22960	**8.885**	544.8	23.7	22.9
2	RCC	M20	09/07/2019	06/08/2019	149.63 X 151.74 X 149.86	22705	**8.920**	500.4	22.0	
3	RCC	M20	09/07/2019	06/08/2019	151.96 X 150.18 X 151.64	22821	**8.064**	525.2	23.0	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date.....

Assistant Executive Engineer
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